## **IN THE CLAIMS:**

## Please amend claim 11, as follows:

1	1.	(Original)	A layer 2 switch, comprising:
2			
3		a plurality of	f ports, at least one port of said plurality of ports capable of being set
4	to a st	atus of root gu	uard protected (RG status);
5			
6		first circuits	for running the spanning tree protocol (STP) in said layer 2 switch,
7	said S	TP capable of	selecting said at least one port as either a designated port or as a root
8	port;		
9			
10		second circu	its for running root guard protocol, and said root guard protocol de-
11	termin	ning whether o	or not a port set to RG status has been selected by STP as a root port;
12	and,		
13			
14		blocking circ	cuits to set said at least one port into blocked status, said blocking cir-
15	cuits setting said at least one port into blocked status in response to said at least one port		
16	being	both in root go	uard protected status and selected by STP as a root port.
1	2.	(Original)	A method of managing a switch for use in a computer network,
2	compi	rising:	
3	•	J	
4		providing a r	plurality of ports, at least one port of said plurality of ports capable of
5	being		of root guard protected (RG status);
6	3		
7		setting said a	at least one port to RG status;
			•

8			
9	running a spanning tree protocol (STP) in said switch, said STP capable of select-		
10	ing said at least one port as either a designated port or as a root port;		
11			
12	running root guard protocol, and said root guard protocol determining whether or		
13	not a port set to RG status has been selected by STP as a root port; and,		
14			
15	setting said at least one port into blocked status, in response to said at least one		
16	port being both in root guard protected status and selected by STP as a root port.		
1	3. (Original) A method of managing a switch for use in a computer network,		
2	comprising:		
3			
4	providing a plurality of ports, at least one port of said plurality of ports capable of		
5	being set to a status of root guard protected (RG status);		
6			
7	setting said at least one port to RG status;		
8			
9	running a spanning tree protocol (STP) in said switch, said STP capable of select-		
10	ing said at least one port as either a designated port or as a root port;		
11			
12	determining whether or not said at least one port set to RG status has been se-		
13	lected by STP as a root port;		
14			
15	setting said at least one port into blocked status in response to said at least one		
16	port being both in root guard protected status and selected by STP as a root port.		

(Canceled)

1 4.

1 5. (Previously presented) A computer network having a core network and a plurality of customer networks connected thereto by a perimeter port of a perimeter switch in 2 said core network, said perimeter port being connected to a port of a switch in a customer 3 network of the plurality of customer networks, said computer network comprising: 4 5 a first process for setting said perimeter port to a status of root guard protected 6 (RG status); 7 8 a second process for running the spanning tree protocol (STP) in said perimeter 9 switch, said STP capable of selecting said perimeter port as either a designated port or as 10 a root port; 11 12 a third process for executing a root guard protocol, said root guard protocol de-13 termining whether or not a port set to RG status has been selected by STP as a root port; 14 and, 15 16 a fourth process for setting said perimeter port into blocked status in response to 17 said perimeter port being both in root guard protected status and selected by STP as a root 18 port. 19 6. (Previously presented) A computer network, comprising: 1 2 means for establishing said computer network as having a core network and a plu-3 rality of customer networks connected thereto by a perimeter port of a perimeter switch in 4 said core network, said perimeter port being connected to a port of a switch in a customer 5 network of the plurality of customer networks; 6

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8	means for setting said perimeter port to a status of root guard protected (RG
9	status);
10	
11	means for running the spanning tree protocol (STP) in said perimeter switch, said
12	STP capable of selecting said perimeter port as either a designated port or as a root port;
13	
14	means for executing a root guard protocol, said root guard protocol determining
15	whether or not a port set to RG status has been selected by STP as a root port; and,
16	
17	means for setting said perimeter port into blocked status in response to said pe-
18	rimeter port being both in root guard protected status and selected by STP as a root port.
1	7. (Original) A method for operating a computer network switch, said computer
2	network switch having a perimeter port connected to a second switch, comprising:
3	
4	setting said perimeter port to a status of root guard protected (RG status);
5	
6	running a spanning tree protocol (STP) in said computer network switch, said
7	STP capable of selecting said perimeter port as either a designated port or as a root port;
8	
9	executing a root guard protocol, said root guard protocol determining whether or
10	not a port set to RG status has been selected by STP as a root port; and,
11	
12	setting said perimeter port into blocked status in response to said perimeter port
13	being both in root guard protected status and selected by STP as a root port.

- 1 8. (Previously presented) The method of claim 7, further comprising:
- executing a process in a CPU control engine to set said perimeter port to a status
- 3 of root guard protected;
- executing a process in said CPU control engine to run said spanning tree protocol;
- 5 and,
- executing a process in said CPU control engine to execute said root guard proto-
- 7 col.
- 1 9. (Previously presented) A computer readable memory device, comprising: said
- 2 computer readable memory device containing instructions for execution by a processor
- for practice of the method of claim 7.
- 1 10. (Previously presented) Electromagnetic signals propagated over a computer net-
- work, said electromagnetic signals having instructions for execution by a processor for
- practice of the method of claim 7.
- 1 11. (Currently amended) The computer network of claim 5, wherein two or more
- processes of said first process, second process, third process and fourth process is are the
- 3 same process.

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- 1 12. (Previously presented) A method for operating a switch for use in a computer
- 2 network, comprising:
- setting at least one port of said switch to root guard protected status (RG status);
- running a spanning tree protocol (STP) capable of selecting said at least one port
- as either a designated port or as a root port;

7		
8	determining whether or not a port set to RG status has been selected by STP as	s a
9	root port; and,	
10		
11	setting said at least one port into blocked status, in response to said at least one	<b>;</b>
12	port being both in RG status and selected by STP as a root port.	
1	13. (Previously presented) A switch, comprising:	
2	means for setting at least one port of said switch to root guard protected status	
3	(RG status);	
4		
5	means for running a spanning tree protocol (STP) capable of selecting said at l	east
6	one port as either a designated port or as a root port;	
7		
8	means for determining whether or not a port set to RG status has been selected	by
9	STP as a root port; and,	
10		
11	means for setting said at least one port into blocked status, in response to said	at
12	least one port being both in RG status and selected by STP as a root port.	
1	14. (Previously presented) A switch, comprising:	
2	a processor; and	
3	a memory configured to store instructions for execution by said processor, said	l
4	instructions for performing the steps of:	
5	setting at least one port of said switch to root guard protected st	atus
6	(RG status);	
7	running a spanning tree protocol (STP) capable of selecting said	l at
8	least one port as either a designated port or as a root port;	

9	determining whether or not a port set to RG status has been	se-
10	lected by STP as a root port; and,	
11	setting said at least one port into blocked status, in response	to said
12	at least one port being both in RG status and selected by STP as a	root
13	port.	
1	15. (Previously presented) The switch of claim 14, wherein said processor res	sides on
2	a linecard in said switch.	
1	16. (Previously presented) The switch of claim 14, wherein said processor res	ides on
2	a central processing unit in said switch.	
1	17. (Previously presented) The switch of claim 14, wherein said memory is lo	cated
2	on a linecard in said switch.	
	10 (D ' 1	. 1
1	18. (Previously presented) The switch of claim 14, wherein said memory is least to be a said a site.	ocated
2	in a global memory unit in said switch.	
1	19. (Previously presented) A switch, comprising:	
2		
3	a plurality of ports, at least one port of said plurality of ports capable of be	ing set
4	to a status of root guard protected (RG status);	
5		
6	first circuits for running the spanning tree protocol (STP) in said switch, sa	aid STP
7	capable of selecting said at least one port as either a designated port or as a root pe	ort;

9	second circuits for running root guard protocol, and said root guard protocol de-	
10	termining whether or not a port set to RG status has been selected by STP as a root port;	
11	and,	
12		
13	blocking circuits to set said at least one port into blocked status, said blocking cir-	
14	cuits setting said at least one port into blocked status in response to said at least one port	
15	being both in root guard protected status and selected by STP as a root port.	
•	20. (Previously presented) A switch, comprising:	
1		
2	a memory configured to store a data structure containing one or more entries, said	
3	entries having a "state" field and a "role" field, said state field having a value of	
4	"blocked" or a value of "forwarding", said data structure having,	
5	a first entry having the role field set to "root port" and the state	
6	field set to forwarding;	
7	a second entry having the role field set to "designated port" and the	
8	state field set to forwarding;	
9	a third entry having the role field set to "blocked port" and the state	
10	field set to blocked; and,	
11	a fourth entry having the role field set to "root inconsistent port"	
12	and the state field set to blocked; and,	
13	a processor to write and read said data structure in implementing a root guard pro-	
14	tocol.	